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imagery analysis report

Probable Command and Control Communications Network in Fuzhou (Fuchou) Military Region, PRC (S)

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IAIR-0019/79
OCTOBER 1979
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PROBABLE COMMAND AND CONTROL COMMUNICATIONS NETWORK IN FUZHOU (FUCHOU) MILITARY REGION, PRC (S)

1. (TSR) A probable command and control communications network has been identified in Fujian (Fukien) Province, Fuzhou (Fuchou) Military Region (MR), People's Republic of China (PRC; Figure 1). Analysis of imagery acquired from July 1976 through July 1979 indicates that the communications network consists of 20 identified stations which appear to have been constructed to support local forces. Fifteen of the 20 stations are near garrison or internal defense barracks, with four of the five remaining stations near possible military barracks areas (Table 1). Stations have been identified near all five of the garrison division headquarters in the MR (Tables 1 and 2).

2. (TSR) Each transmitter facility consists of a rectangular transmitter building and three to five support buildings in a walled compound. Each of the associated antenna fields contains at least one triangular array in which a tuning building has been observed at each antenna. A probable feed point has been observed halfway between any two of the antennas in the triangular array. One or more dipole antennas may also be present. When only one triangular antenna array is present, there is a raised area on the roof of the transmitter building offset toward one end (Figure 2). When additional antennas are present, two raised areas are on the roof of the transmitter building (Figure 3).

3. (TSR) The triangular arrays and the dipole antenna azimuths are depicted in Table 1 as side firing (perpendicular to the wire stretched between any two masts of a triangular array or dipole). All antennas can probably be bidirectionally side firing or bidirectionally end firing, quadrupling the number of possible broadcast azimuths for each antenna.

4. (TSR) Extension of all the broadcast azimuths shows that at least one line of transmission from each station is near one of the other identified stations, indicating that a command and control communications network may be present in Fuzhou MR.

(S) Comments and queries regarding this report are welcome. They may be directed to [redacted]

[redacted] Asian Forces Division, Imagery Exploitation Group, NPIC, [redacted]

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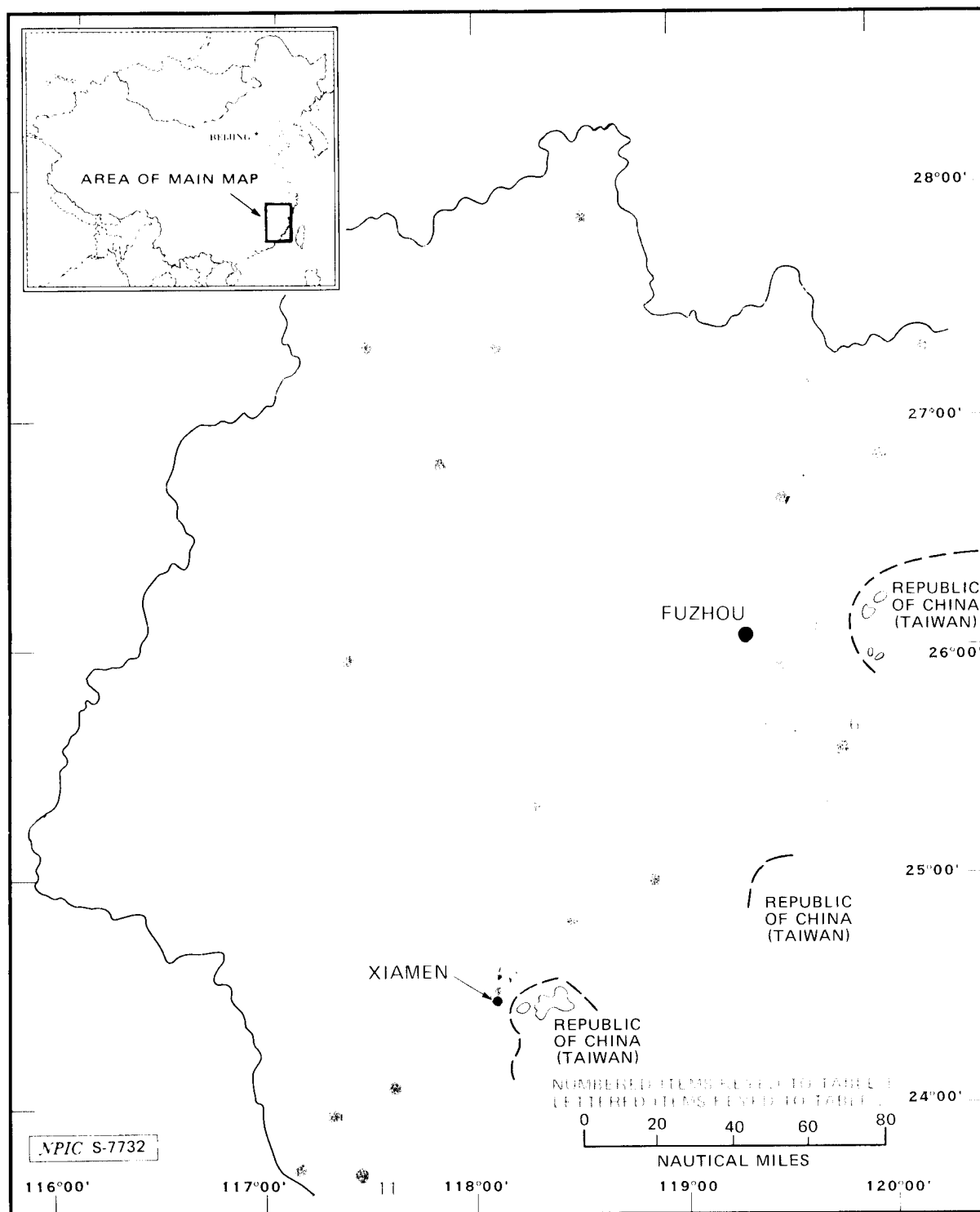


FIGURE 1. LOCATIONS OF COMMUNICATIONS STATIONS IN FUJIAN PROVINCE, FUZHOU MILITARY REGION, PRC

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Table 1.
Communications Stations (Items keyed to Figure 1)

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Item	Name	Coordinates	BE No	Azimuth (deg)	Barracks Nearby	Average Height of Masts (m)	Average Distance Between Masts (m)
1	Fuding (Fu-ting) Probable AM Broadcast Station	27-19-30N 120-13-00E			Poss	55	121
2	Fuan (Fu-an) AM Broadcast Transmitter Station	27-05-35N 119-39-05E			Yes	47	120
3	Xiapu (Hsia-pu) Radio Communications Transmitter Station	26-52-49N 119-59-27E			Yes	48	118
4	Ningde (Ning-te) Radio Communications Transmitter	26-39-52N 119-31-56E			Yes	48	120
5	Changluo (Chang-lo) Radio Communications Facility	25-56-55N 119-29-35E			Yes	56	120
6	Pingtai (Ping-tai) AM Broadcast Transmitter Station	25-30-50N 119-46-25E			Yes	79	115
7	Hui'an (Hui-an) Radio Communications Facility	25-00-50N 118-49-40E			Yes	56	149
8	Anhai (An-hai) AM Broadcast Transmitter Station	24-43-25N 118-28-05E			Poss	61	120
9	Xiamen (Hsia-men) Radio Communications Station North	24-28-20N 118-05-35E			Yes	48	99
10	Yunxiao (Yun-hsiao) Radio Communications Station	23-56-25N 117-19-44E			No	46	119
11	Dongshan (Tung-shan) Radio Communications Station	23-42-55N 117-27-10E			Yes	**	**
12	Zhouan (Chou-an) Radio Communications Station	23-42-20N 117-10-00E			Yes	**	115
13	Pucheng (Pu-cheng) Radio Communications Station	27-54-48N 118-31-35E			Yes	59	119
14	Qianyang (Chien-yang) Radio Communications Station	27-19-15N 118-07-45E			Yes	57	118
15	Shaowu (Shao-wu) Radio Communications Station	27-19-25N 117-29-08E			Yes	41	119
16	Yongan (Yung-an) Radio Communications Facility	25-57-35N 117-21-25E			Poss	65	117
17	Zhangpu (Chang-pu) Radio Communication Station	24-07-05N 117-35-47E			Yes	56	120
18	Fujing (Fu-ching) Radio Communications Station	25-43-00N 119-23-25E			Poss	56	155
19	Yungchun (Yung-chun) Radio Communications Station	25-19-55N 118-17-08E			Yes	56	118
20	Shunzhang (Shun-chang) Radio Communications Station	26-48-10N 117-49-25E			Yes	57	148

*If antennas are side firing.

**Small-scale imagery precludes accurate measurement.

Table 2.
Fuzhou (Fuchou) Military Region
Garrison Division Headquarters
(Items keyed to Figure 1)

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Item	Installation	Coordinates	BE No
A	Fuan (Fu-an) Army Barracks and Border Defense Division Headquarters AL 1	27-05-30N 119-39-14E	
B	Changluo (Chang-lo) Army Barracks and Headquarters Border Defense Division	25-56-45N 119-30-08E	
C	Hui'an (Hui-an) Army Barracks and Garrison Division Headquarters AL 1	25-02-27N 118-47-29E	
D	Xiamen (Hsia-men) Army Barracks and Garrison Division Headquarters AL 7	24-27-06N 118-06-05E	
E	Changan (Chang-an) Army Barracks and Garrison Division Headquarters AL 1	24-08-05N 117-33-25E	

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